

- NOTES**
- 1) SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
 - 2) ALL TREES AND/OR STUMPS WITHIN 100 FEET OF PROPOSED SYSTEM TO BE CLEARED.
 - 3) NO WELL EXISTS WITHIN 100' OF THE PROPOSED LEACHING SYSTEM.
 - 4) 5 FEET FROM SAND FILTER NOT TO BE LOWER THAN ELEVATION 376.50.
 - 5) ANY PRIVATE WELLS, EXISTING & PROPOSED, WITHIN 200' OF DWTS ARE SHOWN.
 - 6) ANY PUBLIC WELLS, EXISTING AND PROPOSED, WITHIN 500' OF DWTS ARE SHOWN.
 - 7) SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
 - 8) NO DRAINS OF ANY KIND SHALL BE WITHIN 25' UPDRAIN OR SIDE GRADIENT OR 50' DOWNDRAIN OF THE LEACHING SYSTEM.
 - 9) ALL SOL. AT LEAST 6" BELOW EXISTING GRADE AT BOTTOMLESS SAND FILTER SHALL BE STOPPED AND BACKFILLED WITH FILTER SAND.
 - 10) THE SEPTIC TANK SHALL BE A WATER-TIGHT, 1,500 GALLON 2-COMPARTMENT TANK WITH 24" DIAMETER INLET AND OUTLET ACCESS RISERS. RISERS SHALL BE PVC WITH SECURE FIBERGLASS LIDS. IF CONCRETE TANK IS USED, ABS TANK ADAPTER SHALL BE CAST IN PLACE. TANK SHALL BE VACUUM TESTED WHEN CONSTRUCTED (W/CERTIFICATE) OR WATER TESTED/VACUUM TESTED ON SITE PRIOR TO ACCEPTANCE FROM THE ENGINEER.
 - 11) THE ADVANTEX-AX TREATMENT SYSTEM CONTAINS A PACKED BED FILTER THAT USES SPECIALLY DESIGNED TEXTILE MATERIALS WITHIN A PRE-ASSEMBLED FILTER UNIT.
 - 12) ALL PUMPS SHALL BE EQUIPPED WITH A HIGH WATER LEVEL VISIBLE AND AUDIBLE ALARM PROVIDED BY A CIRCUIT SEPARATE FROM THE PUMP POWER. THE ALARM SHALL BE LOCATED IN A NORMALLY OCCUPIED AREA OF THE DWELLING OR SHALL BE INSTALLED AT A LOCATION TO BE DESIGNATED BY THE HOMEOWNER.
 - 13) THE SEPTIC TANK SHALL BE PROVIDED WITH A PVC INLET TEE AND SCREENING PUMP VAULT IN THE OUTLET END. AN ACCESS RISER SHALL BE INSTALLED DIRECTLY ABOVE THE SCREENED PUMP VAULT AND INLET TEE.
 - 14) ALL MEDIA WITHIN THE ENCLOSURE AND BELOW THE COVER STONE SHALL HAVE AN EFFECTIVE SIZE (D₅₀) OF 0.33 mm (+/-) AND UNIFORMITY COEFFICIENT (U_{50/20}) OF 3.0 TO 4.0. THE MAXIMUM ALLOWABLE PERCENTAGE OF FINES PASSING THROUGH A NUMBER 200 SIEVE SHALL BE 1% OTHER THAN THE GRADATION AND FINE CONTENT SPECIFIED ABOVE. THE SAND MEDIA SHALL MEET OTHER ASTM C-33 SAND SPECIFICATIONS.
 - 15) IF CONTRACTOR ENCOUNTERS ANY CONDITIONS DURING CONSTRUCTION WHICH INDICATE THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, OR FIND CONFLICTING INFORMATION ON THE PLAN, CONSTRUCTION SHALL CEASE AND DESIGNER BE NOTIFIED.
 - 16) THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENT ACT OF OMISSION OF AN IDS USER, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE SYSTEM.
 - 17) NO STRUCTURES, PERMANENT FEATURES, OR LARGE, HEAVY OR NUMEROUS DECORATIONS SHALL BE PLACED ON TOP OF THE BOTTOMLESS SAND FILTER THAT WOULD OBSTRUCT, PREVENT OR HINDER OPERATION AND MAINTENANCE OR ACCESS TO THE BSF.
 - 18) ACCESS PORTS OR MANHOLES SHALL BE REQUIRED FOR SEQUENCING VALVES AND SHALL BE SUFFICIENTLY SIZED TO FACILITATE MAINTENANCE.
 - 19) TIMER SETTINGS SHALL BE CHECKED AT EVERY ESTABLISHED MAINTENANCE AND INSPECTION VISIT AND WHEN HOME OCCUPANCY CHANGES AND ADJUSTED AS NEEDED.
 - 20) THE PANEL BOX MUST BE WITHIN VIEW OF THE SYSTEM LOCATION TO HELP FACILITATE OPERATION AND MAINTENANCE.
 - 21) THE SPACE FROM THE ENDS OF THE LATERALS TO THE LINER SHALL BE CLOSE TO HALF THE GRIPPE SPACING AND BE ABLE TO ACCOMMODATE THE FITTINGS AND HAVE SUFFICIENT SPACE FOR MAINTENANCE ACTIVITIES.
 - 22) SHEEP ELBOWS SHALL BE ATTACHED TO THE DISTAL END OF EACH LATERAL TO FACILITATE MAINTENANCE AND INSPECTION.
 - 23) REFER TO OPERATION & MAINTENANCE AGREEMENT FOR PROPER MAINTENANCE OF ALL SYSTEM COMPONENTS.

SYSTEM SIZING:

3 BEDROOMS: 115 GPD x 3 = 345 GPD
 SOIL CATEGORY: 6
 APPLICATION RATE: 2.3 GPD/SF
 AREA REQUIRED: 345/2.3 = 150 SF
 AREA PROVIDED: 8' x 18'9" = 150 SF

TEST HOLE DATA
 DATE: 1-25-22

TH1	TH2	LEDGE PROBES
0"-9" A, SL, 10YR 2/2	0"-9" A, SL, 10YR 2/2	P1 76"
9"-40" Bw, SL, 10YR 5/6	9"-42" Bw, CB, G, SL, 10YR 5/6	P2 85"
40"-81" C, SL, 5YR 5/2	42"-96" C, CB, G, SL, 5YR 5/2	P3 84"
	SHWT 18"	1 66"
	LEDGE AT 81"	2 74"
		3 104"
		4 98"

DOSE PER ORIFICE: 345 GPD/(24 DOSES/DAY)/78 ORIFICES = .18 GAL/ORIFICE/DOSE

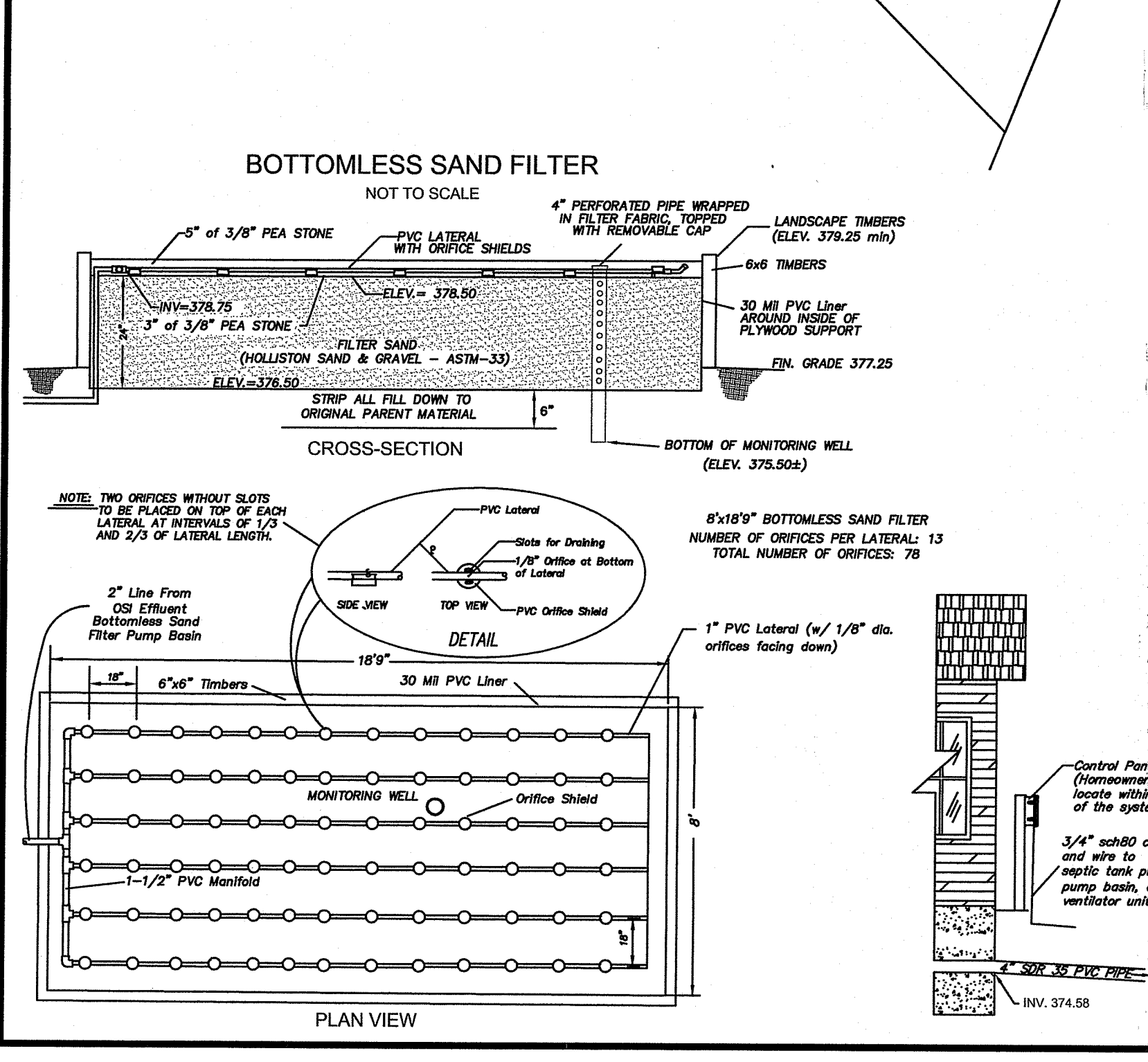
SYSTEM COMPONENTS

1. 1,500 GALLON 2-COMPARTMENT CONCRETE SEPTIC TANK WITH PUMP VAULT AND RECIRCULATING SPLITTER VALVE AND P3005 PUMP.
2. 5' DEEP - 24" DIAMETER PUMP BASIN.
3. AX-20 ADVANTEX TEXTILE FILTER.
4. 18'9" LONG x 8' WIDE BOTTOMLESS SANDFILTER
5. ORENCO SYSTEMS, INC. CONTROL PANEL.

LEGEND

- 100' --- 100' EXISTING CONTOURS
- PROPOSED CONTOURS
- TEST PIPE
- WETLAND FLAG
- PVC POLYVINYL CHLORIDE

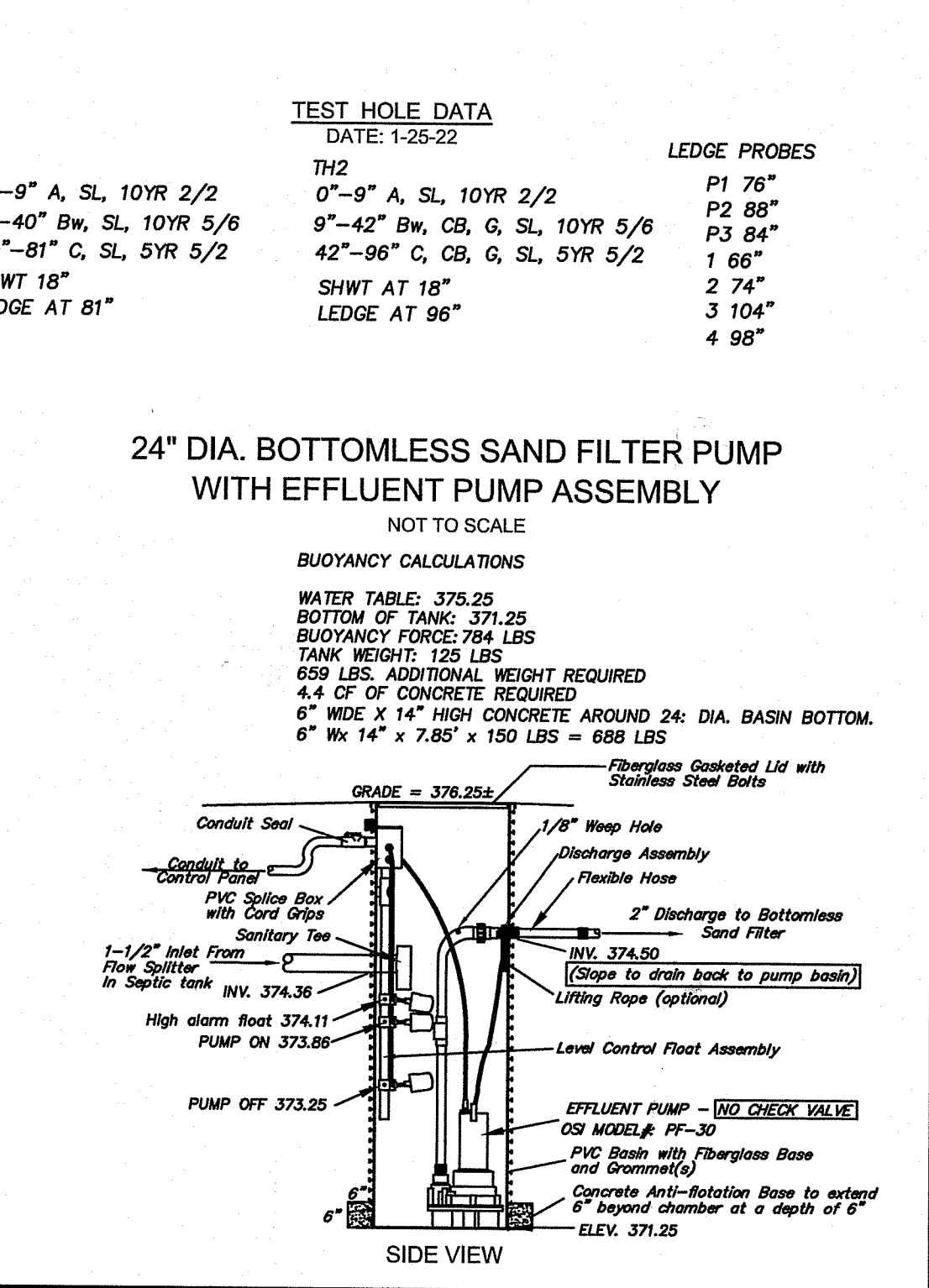
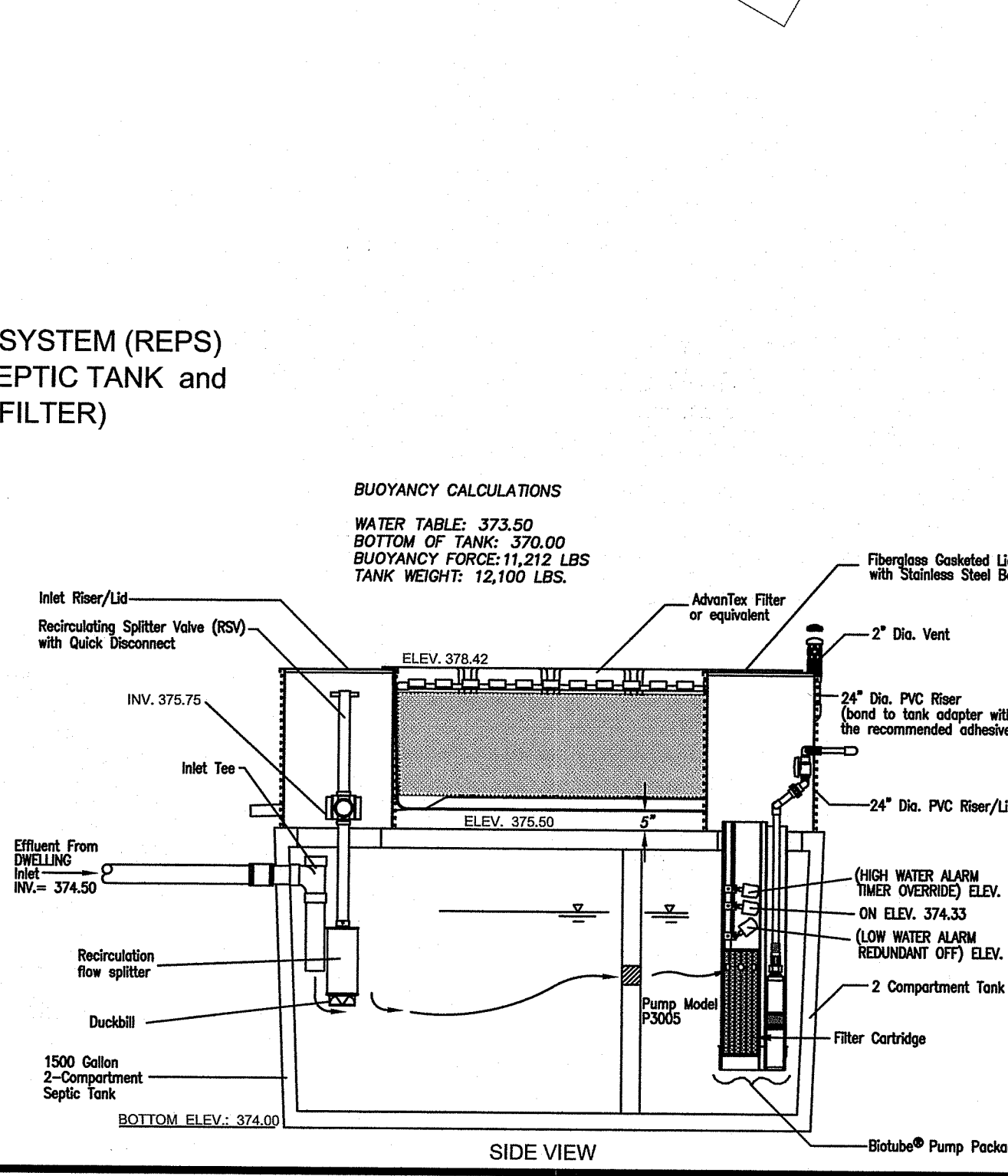
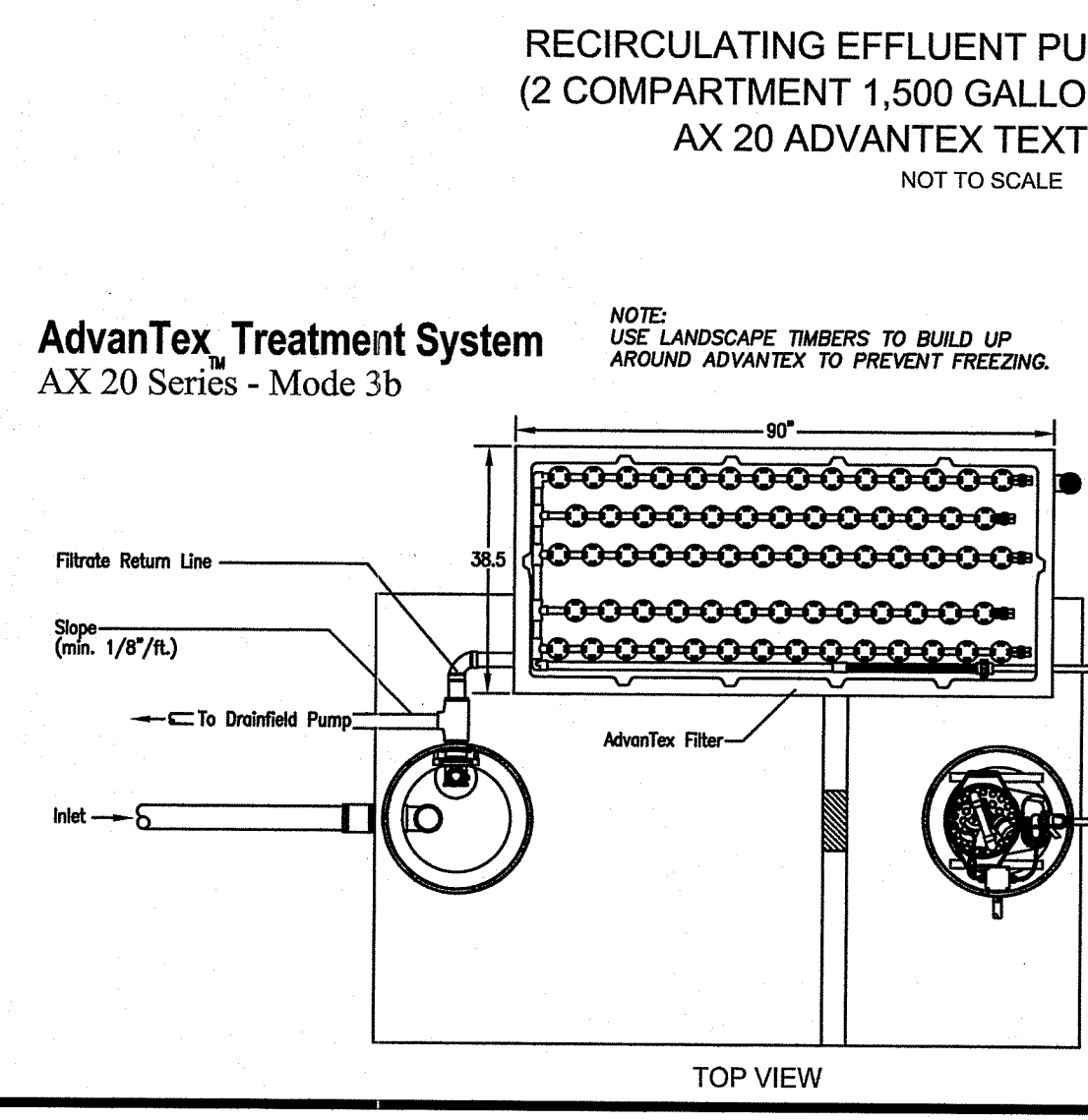
ZONING DISTRICT: F2
 MINIMUM SETBACKS: FRONT - 40'
 REAR - 40'
 SIDE - 15'



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 DWTS & FRESHWATER WETLANDS
 JOINT PERMIT APPROVAL

DWTS# 2003-0274 DATE 02-01-22
 APPROVED [Signature] DATE 10/3/22

No Changes Allowed Without RIDEM Approval
 Approved Plans/Permit Must Be Kept at Construction Site



PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM & WETLANDS PLAN
 for
PLAT 146, LOT 3
BRONCO HIGHWAY & VICTORY HIGHWAY
BURRILLVILLE, RHODE ISLAND
 MARCH, 2022
 SCALE 1"= 30'
 REVISED: 9-19-22

PAUL D. CARLSON
 No. 7142
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

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SHEET NUMBER
1 of 1

JOB NUMBER
21-046